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OM protein - protein search, using sw model

Run on: June 25, 2003, 14:55:36 ; Search time 17.6395 Seconds
(without alignments)
680.911 Million cell updates/sec

Title: US-09-622-613B-26

Perfect score: 606
Sequence: 1 MSNMAFPQOKHIINTPIICN.....ICVKECNOYVPHAGIGRCP 111

Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 417779 seqs, 108206813 residues

Total number of hits satisfying chosen parameters: 417779

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database: Published_Applications_AA:*

- 1: /cgn2_6/ptodata/1/pubppaa/US08_NEW_PUB.pep:*
- 2: /cgn2_6/ptodata/1/pubppaa/PCT_NEW_PUB.pep:*
- 3: /cgn2_6/ptodata/1/pubppaa/US06_NEW_PUB.pep:*
- 4: /cgn2_6/ptodata/1/pubppaa/US06_PUBCOMB.pep:*
- 5: /cgn2_6/ptodata/1/pubppaa/US07_NEW_PUB.pep:*
- 6: /cgn2_6/ptodata/1/pubppaa/US07_PUBCOMB.pep:*
- 7: /cgn2_6/ptodata/1/pubppaa/PCTUS_PUBCOMB.pep:*
- 8: /cgn2_6/ptodata/1/pubppaa/US08_PUBCOMB.pep:*
- 9: /cgn2_6/ptodata/1/pubppaa/US09_NEW_PUB.pep:*
- 10: /cgn2_6/ptodata/1/pubppaa/US09_PUBCOMB.pep:*
- 11: /cgn2_6/ptodata/1/pubppaa/US10_NEW_PUB.pep:*
- 12: /cgn2_6/ptodata/1/pubppaa/US10_PUBCOMB.pep:*
- 13: /cgn2_6/ptodata/1/pubppaa/US60_NEW_PUB.pep:*
- 14: /cgn2_6/ptodata/1/pubppaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	606	100.0	111	9	US-09-948-391A-26
2	601	99.2	110	9	US-09-948-391A-24
3	597	98.5	110	9	US-09-948-391A-15
4	596	98.3	111	9	US-09-948-391A-17
5	596	98.3	111	9	US-09-948-391A-21
6	596	98.3	111	9	US-09-948-391A-22
7	585	96.5	110	9	US-09-948-391A-19
8	285.5	46.7	105	9	US-09-948-391A-13
9	281.5	46.5	105	9	US-09-948-391A-6
10	280.5	46.3	104	9	US-09-948-391A-11
11	277.5	45.8	105	9	US-10-153-882-2
12	276.5	45.6	127	9	US-09-948-391A-28
13	275.5	45.0	104	9	US-09-948-391A-2
14	272.5	45.0	104	9	US-09-948-391A-1
15	270.5	44.6	104	9	US-09-948-391A-4
16	266.5	44.0	105	9	US-09-948-391A-8
17	266.5	44.0	111	9	US-09-948-391A-9
18	206	34.0	83	9	US-09-948-391A-3
19	158	26.1	169	12	US-10-016-447-2

20	117	19.3	147	10	US-09-731-872-254	Sequence 254, App
21	114.5	18.9	124	9	US-09-981-286A-8	Sequence 8, Appl
22	114	18.8	124	12	US-10-016-447-5	Sequence 5, Appl
23	113	18.6	131	12	US-10-016-447-6	Sequence 6, Appl
24	113	18.6	147	10	US-09-286-240-6	Sequence 6, Appl
25	113	18.6	147	10	US-09-863-777-2	Sequence 2, Appl
26	92	15.2	161	9	US-10-001-876-197	Sequence 197, App
27	79	13.0	77	10	US-09-925-299-836	Sequence 836, App
28	79	13.0	77	10	US-09-925-299-836	Sequence 836, App
29	79	13.0	156	9	US-09-796-753-118	Sequence 102, App
30	79	13.0	156	9	US-10-245-107-60	Sequence 118, App
31	79	13.0	156	9	US-10-245-107-60	Sequence 60, Appl
32	79	13.0	156	9	US-10-245-107-60	Sequence 60, Appl
33	79	13.0	156	9	US-10-245-143-60	Sequence 60, Appl
34	79	13.0	156	9	US-10-245-771-60	Sequence 60, Appl
35	79	13.0	156	9	US-10-245-851-60	Sequence 60, Appl
36	79	13.0	156	9	US-10-245-883-60	Sequence 60, Appl
37	79	13.0	156	9	US-10-237-535-60	Sequence 60, Appl
38	79	13.0	156	9	US-10-238-183-60	Sequence 60, Appl
39	79	13.0	156	9	US-10-238-183-60	Sequence 60, Appl
40	79	13.0	156	9	US-10-238-370-60	Sequence 60, Appl
41	79	13.0	156	9	US-10-245-055-60	Sequence 60, Appl
42	79	13.0	156	9	US-10-245-147-60	Sequence 60, Appl
43	79	13.0	156	9	US-10-245-730-60	Sequence 60, Appl
44	79	13.0	156	9	US-10-245-739-60	Sequence 60, Appl
45	79	13.0	156	9	US-10-246-210-60	Sequence 60, Appl

ALIGNMENTS

RESULT 1
US-09-948-391A-26
Sequence 26, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
Department of Health and Human Services
TITLE OF INVENTION: Recombinant Anti-Tumor Nucleoside
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948, 391A
CURRENT FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079, 751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622, 613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 26
LENGTH: 111
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Rana
OTHER INFORMATION: catesbeiana ribonuclease with Met at position 1
OTHER INFORMATION: and Glansser substitution (Met(-1) RacOR1 Q15)
US-09-948-391A-26
Query Match 100.0%; Score 606; DB 9; Length 111;
Best Local Similarity 100.0%; Pred. No. 3.3e-60;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 MSNMAFPQOKHIINTPIICNTIMDNNTIYIGGQCKRVNTFTISSATTYKACCTGVIMNV 60
DB 1 MSNMAFPQOKHIINTPIICNTIMDNNTIYIGGQCKRVNTFTISSATTYKACCTGVIMNV 60
OY 61 LSTRFOLNCTRTSITPRPCVPYSSRTETNYICVKECNOYVPHAGIGRCP 111
|||||

Db 61 LSTRFOLNCTRTSITPRPCPYSSRTETNYICVGCENQYVPHFAGIGRCP 111

RESULT 2

US-09-948-391A-24

Sequence 24, Application US/09948391A

Publication No. US20030027311A1

GENERAL INFORMATION:

APPLICANT: Rybak, Susanna M.

APPLICANT: Newton, Dianne L.

APPLICANT: The United States of America

APPLICANT: as represented by The Secretary of the

TITLE OF INVENTION: Department of Health and Human Services

FILE REFERENCE: 015280-343110US

CURRENT APPLICATION NUMBER: US/09/948,391A

PRIOR APPLICATION NUMBER: US 60/079,751

PRIOR FILING DATE: 1998-03-27

PRIOR APPLICATION NUMBER: WO PCT/US99/06641

PRIOR FILING DATE: 1999-03-26

PRIOR APPLICATION NUMBER: US 09/622,613

PRIOR FILING DATE: 2000-08-17

NUMBER OF SEQ ID NOS: 43

SOFTWARE: Patentln Ver. 2.0

SEQ ID NO 24

LENGTH: 110

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence:Rana

OTHER INFORMATION: catesbeiana ribonuclease with Glutiser substitution

US-09-948-391A-24

Query Match Best Local Similarity 99.2%; Score 601; DB 9; Length 110; Pred. No. 1.2e-59;

Matches 110; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 2 MSNATFOQKHIIINPIICNTIMDNIIYVGGCKRVNFTIISATVKAICTGVINNV 61

1 MSNATFOQKHIIINPIICNTIMDNIIYVGGCKRVNFTIISATVKAICTGVINNV 60

QY 62 TTRFOLNCTRTSITPRPCPYSSRTETNYICVGCENQYVPHFAGIGRCP 111

61 LSTRFOLNCTRTSITPRPCPYSSRTETNYICVGCENQYVPHFAGIGRCP 110

RESULT 3

US-09-948-391A-15

Sequence 15, Application US/09948391A

Publication No. US20030027311A1

GENERAL INFORMATION:

APPLICANT: Rybak, Susanna M.

APPLICANT: Newton, Dianne L.

APPLICANT: The United States of America

APPLICANT: as represented by The Secretary of the

TITLE OF INVENTION: Department of Health and Human Services

FILE REFERENCE: 015280-343110US

CURRENT APPLICATION NUMBER: US/09/948,391A

PRIOR APPLICATION NUMBER: US 60/079,751

PRIOR FILING DATE: 1998-03-27

PRIOR APPLICATION NUMBER: WO PCT/US99/06641

PRIOR FILING DATE: 1999-03-26

PRIOR APPLICATION NUMBER: US 09/622,613

NUMBER OF SEQ ID NOS: 43

SOFTWARE: Patentln Ver. 2.0

SEQ ID NO 15

LENGTH: 110

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence:Rana

OTHER INFORMATION: catesbeiana oocyte ribonuclease (RacOR1) synthetic

US-09-948-391A-15

Query Match Best Local Similarity 98.5%; Score 597; DB 9; Length 110; Pred. No. 3.3e-59;

Matches 109; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 MSNATFOQKHIIINPIICNTIMDNIIYVGGCKRVNFTIISATVKAICTGVINNV 62

2 MSNATFOQKHIIINPIICNTIMDNIIYVGGCKRVNFTIISATVKAICTGVINNV 61

QY 63 TTRFOLNCTRTSITPRPCPYSSRTETNYICVGCENQYVPHFAGIGRCP 111

62 TTRFOLNCTRTSITPRPCPYSSRTETNYICVGCENQYVPHFAGIGRCP 110

RESULT 4

US-09-948-391A-17

Sequence 17, Application US/09948391A

Publication No. US20030027311A1

GENERAL INFORMATION:

APPLICANT: Rybak, Susanna M.

APPLICANT: Newton, Dianne L.

APPLICANT: The United States of America

APPLICANT: as represented by The Secretary of the

TITLE OF INVENTION: Department of Health and Human Services

FILE REFERENCE: 015280-343110US

CURRENT APPLICATION NUMBER: US/09/948,391A

PRIOR APPLICATION NUMBER: US 60/079,751

PRIOR FILING DATE: 1998-03-27

PRIOR APPLICATION NUMBER: WO PCT/US99/06641

PRIOR FILING DATE: 1999-03-26

PRIOR APPLICATION NUMBER: US 09/622,613

PRIOR FILING DATE: 2000-08-17

NUMBER OF SEQ ID NOS: 43

SOFTWARE: Patentln Ver. 2.0

SEQ ID NO 17

LENGTH: 111

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence:Rana

OTHER INFORMATION: catesbeiana ribonuclease with Met at position 1

US-09-948-391A-17

Query Match Best Local Similarity 98.3%; Score 596; DB 9; Length 111; Pred. No. 4.3e-59;

Matches 109; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 MSNATFOQKHIIINPIICNTIMDNIIYVGGCKRVNFTIISATVKAICTGVINNV 60

1 MSNATFOQKHIIINPIICNTIMDNIIYVGGCKRVNFTIISATVKAICTGVINNV 60

QY 61 LSTRFOLNCTRTSITPRPCPYSSRTETNYICVGCENQYVPHFAGIGRCP 111

61 LSTRFOLNCTRTSITPRPCPYSSRTETNYICVGCENQYVPHFAGIGRCP 110

US-09-948-391A-21

Sequence 21, Application US/09948391A

Publication No. US20030027311A1

GENERAL INFORMATION:

APPLICANT: Rybak, Susanna M.

APPLICANT: Newton, Dianne L.

APPLICANT: The United States of America

APPLICANT: as represented by The Secretary of the
APPLICANT: Department of Health and Human Services
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948, 391A
PRIORITY FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622, 613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 21
LENGTH: 111
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Rana
OTHER INFORMATION: catesbelana ribonuclease with Met at position 1,
OTHER INFORMATION: Met23leu and Met58leu substitutions (recombinant
OTHER INFORMATION: Met(-1) RacOR1 Met22leu Met57leu)
US-09-948-391A-21

Query Match
Best Local Similarity 98.3%; Score 596; DB 9; Length 111;
Matches 108; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 1 MSNMAFPOOKHIIINPIICNTIMDNNIYIVGGCKRVNFTIISATVKAICTGVINMNV 60
DB 1 MOWMAFPOOKHIIINPIICNTIMDNNIYIVGGCKRVNFTIISATVKAICTGVINLNV 60
OY 61 LSTRFOLNCTRTSITPRPCPYSSRTETNYICVKCENQPVHFAIGRCP 111
DB 61 LSTRFOLNCTRTSITPRPCPYSSRTETNYICVKCENQPVHFAIGRCP 111

RESULT 6

US-09-948-391A-22
Sequence 22, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: as represented by The Secretary of the
APPLICANT: Department of Health and Human Services
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948, 391A
PRIORITY FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622, 613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 22
LENGTH: 117
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Rana
OTHER INFORMATION: catesbelana ribonuclease with (His)6 tag, Met at
OTHER INFORMATION: position 7, Met23leu and Met58leu substitutions
OTHER INFORMATION: (recombinant Met(-1) RacOR1 Met22leu Met57leu-(His)6)
US-09-948-391A-22

Query Match
Best Local Similarity 98.3%; Score 596; DB 9; Length 117;
Matches 108; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Matches 108; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 1 MSNMAFPOOKHIIINPIICNTIMDNNIYIVGGCKRVNFTIISATVKAICTGVINMNV 60
DB 7 MOWMAFPOOKHIIINPIICNTIMDNNIYIVGGCKRVNFTIISATVKAICTGVINLNV 66
OY 61 LSTRFOLNCTRTSITPRPCPYSSRTETNYICVKCENQPVHFAIGRCP 111
DB 67 LSTRFOLNCTRTSITPRPCPYSSRTETNYICVKCENQPVHFAIGRCP 117

RESULT 7

US-09-948-391A-19
Sequence 19, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: as represented by The Secretary of the
APPLICANT: Department of Health and Human Services
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948, 391A
PRIORITY FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622, 613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 19
LENGTH: 110
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Rana
OTHER INFORMATION: catesbelana ribonuclease with Met22leu and
OTHER INFORMATION: Met57leu substitutions (recombinant RacOR1
OTHER INFORMATION: Met22leu Met57leu)
US-09-948-391A-19

Query Match
Best Local Similarity 96.5%; Score 585; DB 9; Length 110;
Matches 106; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 3 MNATFPOOKHIIINPIICNTIMDNNIYIVGGCKRVNFTIISATVKAICTGVINMNV 62
DB 2 MNATFPOOKHIIINPIICNTIMDNNIYIVGGCKRVNFTIISATVKAICTGVINLNV 61
OY 63 TTRFOLNCTRTSITPRPCPYSSRTETNYICVKCENQPVHFAIGRCP 111
DB 62 TTRFOLNCTRTSITPRPCPYSSRTETNYICVKCENQPVHFAIGRCP 110

RESULT 8

US-09-948-391A-13
Sequence 13, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: as represented by The Secretary of the
APPLICANT: Department of Health and Human Services
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948, 391A
PRIORITY FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27

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: PRIOR APPLICATION NUMBER: WO PCT/US99/06641
: PRIOR FILING DATE: 1999-03-26
: PRIOR APPLICATION NUMBER: US 09/622,613
: PRIOR FILING DATE: 2000-08-17
: NUMBER OF SEQ ID NOS: 43
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 13
: LENGTH: 105
: TYPE: PRT
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Description of Artificial Sequence:Rana pipiens
: OTHER INFORMATION: ribonuclease with Met at position 1 and Glu2Ser
: OTHER INFORMATION: substitution (recombinant Met(-1) KapLR1 Q15)
: OS-09-948-391A-13

```

Query Match	47.1%	Score 285.5;	DB 9;	Length 105;
Best Local Similarity	50.0%	Pred. No. 1.7e+24;		
Matches	56;	Conservative	15;	Mismatches 32;
				Indels 9;
				Gaps 4;

DQ
Y I MSNNAITFOCKHIINT-PIICNTIMDNNNIIVGGCKRVAITEISSATTVKAICTGYI-NM 58
||| ||| ||| : | | | : | | | ||| :
Dd I MSDWLTFOCKRLTNRDVDCNNIMSTNLF---HCKDKNTFIYSREPEVVAICKGIIASK 56

```
OY      59 NVLSTTRFQLNCTRTSITPPPCPYSSRKRETNYICVKCENQYPVHFAIGRC   110  
       |||::|||::|||::|||::|||::|||::|||::|||::|||::|||:  
Db     57 NVLTTFSELYLSDC--NVTSRPCKKYLKKSTNTFCVCYCENQAPEHVGVGHC   105
```

RESULT 9
US-09-948-391A-6
; Sequence 6, Application US/09948391A
; Publication No. US20030027311A1

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APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
APPLICANT: Department of Health and Human Services
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948,391A
CURRENT FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622,613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 6
LENGTH: 105
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens
OTHER INFORMATION: ribonuclease with Met at position 1 (recombinant)
OTHER INFORMATION: Met(-1) RApR1)
US-09-948-391A-6

```

Query March	46.5%	Score 281.5	DB 9	Length 105
Best Local Similarity	49.18%	Pred. No. 4.6e-24		
Matches 55: Conservative	15	Mismatches 33	Indels 9	Gaps 4

Qy 1 MSNNATFOCKHIINT-PIICNTIMDNIIYIGGQCKRVNTEFIISATTPKAICTGYI-NM 58
| : ||||| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | :
Db 1 MODULTFOCKHLTNRDVDCNNIMSTLNF-----HCKDKNTFYISRPEPKAICKGLIAASK 56

QY 59 NVLSTRFQLNCTRTSTIPRPPCYSSRTETNYICAKCENQYPVHFAIGRC 110
|||:| | | :| | | : | | | | | | | | |
Db 57 NVLITSEFYLSDC--NVTSPCKKYLKSTNTFCYTCENQAPVHFGVGHG 105

RESULT 10
US-09-948-391A-11
; Sequence 11, Application US/09948391A
; Publication No. US20030027311A1

APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
APPLICANT: Department of Health and Human Services
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948, 391A
CURRENT FILING DATE: 2002-05-10
PRIORITY APPLICATION NUMBER: US 60/079, 751

: PRIOR APPLICATION NUMBER: WO PCT/US99/0664
 : PRIOR FILING DATE: 1999-03-26
 : PRIOR APPLICATION NUMBER: US 09/622,613
 : PRIOR FILING DATE: 2000-08-17
 : NUMBER OF SEQ ID NOS: 43
 : SOFTWARE: PatentIn Ver. 2.0

LENGTH: 104

```

: OTHER INFORMATION: Description of Artificial Sequence:Rana pipiens
: OTHER INFORMATION: ribonuclease with Gln1ser substitution
: OTHER INFORMATION: (recombinant RAPRI Q1S)
US-09-948-391A-11

```

Query March	46.3%;	Score 280.5;	DB 9;	Length 104;
Best Local Similarity	49.5%;	Pred. No. 5.9e-24;		
Matches 55; Conservative	15;	Mismatches 32;	Indels 9;	Gaps 4;

Dy 2 SNNATFEQOKHHINT-PICCNIMDNNIYIVGCOCKRVNTEFISSATTVAICTGYI-MNM 59
| | | | : | | | | | | | | : |
Db 1 SDWLTFQKKHLINTRDYDCNNIMSTNF-----HCKDKNTFTYSRPEPVAICIGKIIASN 56

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Oy 60 VISTRTFOINTCTRTSITPRCPYSSRTETNYICVKCENQYPMHFGAGRC 110
    ||::||::||::||::||::||::||::||::||::||::||::||::||
Db 57 VLTSEFYISDC--NVTSRPCKKLLKSTNTFCVTCENQAPVHHEVGVGHC 104

```

RESULT 11
US-10-153-882-2

; Publication No. US20030099629A1
 ; GENERAL INFORMATION:
 ; APPLICANT: GOLDENBERG, David M.
 ;

; APPLICANT: LEUNG, Shui-on
 ; TITLE OF INVENTION: RECOMBINANT ONCONASE, AND CHEMICAL CONJUGATES AND
 ; TITLE OF INVENTION: FUSION PROTEINS OF RECOMBINANT ONCONASE

; CURRENT APPLICATION NUMBER: US/10/153,882
 ; CURRENT FILING DATE: 2002-05-24
 ; PRIOR APPLICATION NUMBER: US/09/265,901

;; PRIOR APPLICATION NUMBER: US 60/077,557
;; PRIOR FILING DATE: 1998-03-11
;; NUMBER OF SEQ ID NOS: 12

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; SEQ ID NO 2
; LENGTH: 105
; TYPE: PRT

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US-10-153-882-2

Query Match	45.88;	Score 277.5;	DB 9;	Length 105;
Best Local Similarity	49.18;	Pred. No. 1.3e-23;		

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Matches 55; Conservative 15; Mismatches 33; Indels 9; Gaps 4
Qy 1 MSNNAFPOQKHIINT-PIICNTIMDNNNIYVGGCKRNFNTFISSATTYKATCGVT-NM 58
Db 1 MODMLTFPOCKHITRTDVCCHINSTNLF----HCKDKNTFIYSRPEPVKAICKGIASKV 56
Qy 59 NVLSTFRPOLWTCRTSTITPRPCPYSSRTEETNYICVCKENQYPVHFAGIGRC 110
Db 57 NVLTTSEFYLSDC---NVTSRPCKYKIKKSTNKFVCYCENQAPVHFVGVGSC 105

RESULT 12
US-09-948-391A-28
Sequence 28, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
Department of Health and Human Services
TITLE OF INVENTION: Recombinant Anti-Tumor Rhase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948-391A
CURRENT FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/0791,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 28
LENGTH: 127
TYPE: PRT
ORGANISM: Rana pipiens
FEATURE:
OTHER INFORMATION: Insert
US-09-948-391A-28

Query Match 45.6%; Score 276.5; DB 9; Length 127;
Best Local Similarity 49.1%; Freq. No. 2.1e-23;
Matches 54; Conservative 15; Mismatches 32; Indels 9; Gaps 4
Qy 3 NNATFPOQKHIINT-PIICNTIMDNNNIYVGGCKRNFNTFISSATTYKATCGVT-NMNV 60
Db 25 DWLTFPOCKHITRTDVCCHINSTNLF----HCKDKNTFIYSRPEPVKAICKGIASKNV 80
Qy 61 LSTFRPOLWTCRTSTITPRPCPYSSRTEETNYICVCKENQYPVHFAGIGRC 110
Db 81 LTTSEFYLSDC---NVTSRPCKYKIKKSTNKFVCYCENQAPVHFVGVGSC 127

RESULT 13
US-09-948-391A-2
Sequence 2, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
Department of Health and Human Services
TITLE OF INVENTION: Recombinant Anti-Tumor Rhase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948-391A
CURRENT FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26

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PRIOR APPLICATION NUMBER: US 09/622,613
 PRIOR FILING DATE: 2000-08-17
 NUMBER OF SEQ ID NOS: 43
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO 2
 LENGTH: 104
 TYPE: PRT
 ORGANISM: Rana pipiens
 FEATURE:
 OTHER INFORMATION: ribonuclease (RaplR1)
 US-09-948-391A-2

Query Match 45.5% Score 275.5 DB 9: Length 104;
 Best Local Similarity 49.1% Pred. No. 2.1e-23;
 Matches 54; Conservative 15; Mismatches 32; Indels 9; Gaps 4;

Oy 3 NMATFOQKHIINT-PIICNTIMDNNIYVGGCKRVNFTFIISATYKALCTGYI-MNV 60
 Db 2 DMLTFQKKHLNTRDVCNITSLNLF---HCKDKNTFIYSRDEPKVAKGIIASKNV 57
 Oy 61 LSTRFQNLNCTKTSITPRCPYSSRRETNITCYKCEMGQYVHVRAGIGRC 110
 Db 58 LTISEFLYSDC---NVTSRPCKYKLRKSTNFTVCENQAPVHFGVGH 104

RESULT 14
 US-09-986-119-1
 Sequence 1, Application US/09986119
 Publication No. US20020187153A1
 GENERAL INFORMATION:
 APPLICANT: Rybak, Susanna M.
 Newton, Dianne L.
 Goldenberg, David M.
 TITLE OF INVENTION: Immunotoxins Directed Against Malignant Cells
 NUMBER OF SEQUENCES: 3
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Townsend and Townsend and Crew LLP
 STREET: Two Embarcadero Center, Eighth Floor
 CITY: San Francisco
 STATE: California
 COUNTRY: USA
 ZIP: 94111-3834
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/986,119
 FILING DATE: 07-NO. US20020187153A1-2001
 CLASSIFICATION: <unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/09/071,672
 FILING DATE: 01-MAY-1998
 APPLICATION NUMBER: US 60/046,895
 FILING DATE: 02-MAY-1997
 ATTORNEY/AGENT INFORMATION:
 NAME: Weber, Ellen Lauver
 REGISTRATION NUMBER: 32,762
 REFERENCE/DOCKET NUMBER: 015280-32510US
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (415) 576-0200
 TELEFAX: (415) 576-0200
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 104 amino acids
 TYPE: amino acid
 STRANDEDNESS: <unknown>
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 FEATURE:
 NAME/KEY: Modified-site

